(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/058163 A3

(51) International Patent Classification7:

A61K 31/34

(21) International Application Number:

PCT/US2003/040561

(22) International Filing Date:

19 December 2003 (19.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/436,051 23 December 2002 (23.12.2002) US 60/448,833 20 February 2003 (20.02.2003) US

- (71) Applicants (for all designated States except US): MERCK FROSST CANADA & CO. [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY [US/US]; 65 Bergen Street, Newark, NJ 07107-3001 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HATHAWAY, Nancy [US/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). MARK, Margery [US/US]; 65 Bergen Street, Newark, NJ 07107-3001 (US).
- (74) Agents: PANZER, Curtis, C. et al.; Merck & Co., Inc., 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 7 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PHARMACEUTICAL COMPOSITIONS AND METHOD OF TREATING PARKINSON'S DISEASE

(57) Abstract: This invention is directed to the use of certain pharmaceutical compositions for treating and methods of treating Parkinson s disease. In particular, this invention is directed to pharmaceutical compositions for treating and methods of treating Parkinson s disease comprising the use of selective cyclooxygenase-2 inhibitors, such as rofecoxib, etoricoxib, celecoxib and valdecoxib, with and without concomitant use of one or more antiparkinson drugs.





INTERNATIONAL SEARCH REPORT

International application No.

| A. CLA | ASSIFICATION OF SUBJECT MATTER | | PC1/US03/405 | 01 |
|----------------|--|--|--|--|
| IPC(7) | : A61K 31/34 | | | ************************************** |
| US CL | : 514/461 | | | |
| B. FIFE | o International Patent Classification (IPC) or to bo | h national classification | and IPC | |
| | | | | |
| ivinimum d | ocumentation searched (classification system follow | ed by classification sym | bols) | |
| 0.3 | 714/401 | • | • | |
| | | | | |
| Documentati | ion searched other than minimum documentation to | the extent that such docu | ments are includ | ed in the fields searched |
| | | | | on men neigh scarched |
| | | | | |
| Electronic de | ata base consulted during the international search (| name of data base and u | here prestigable | const A |
| | - (| The same of the same, we | acre practicable, | search terms used) |
| | | | | |
| C. DOC | UMENTS CONSIDERED TO BE RELEVANT | | | |
| Category * | Citation of document, with indication, whose arranged in Citation of document, with indication whose arranged in Citation of the Citation of t | | | |
| Y | Database Blosis on ACS. Accession No. 2001. | 562508 TEIGRAMMI | | Relevant to claim No. |
| | Cyclooxygenase-2 delicient mice are resistant to MPTP Abstract Society for | | | 1-20 |
| <i>/</i> . | Neuroscience, 2001 Vol. 27, No. 2, page 1808. | · | | 1 |
| ´· | | | | } |
| | | | | |
| 1 | | | | |
| l | | | | 1 |
| ŀ | | | | |
| | | | | l |
| | | | | ł |
|) | | | | |
|] | | | |] |
| | | | | ļ |
| ĺ | | | | |
| ļ | | | | |
| İ | | | | |
| | | | | |
| Further | documents are listed in the continuation of Box C. | See patent fa | mily anner | |
| | ecial categories of cited documents: | | - | |
| | defining the general state of the art which is not considered to | priority date at | 10 not in conflict with | ternational filing date or the application but cited to |
| be of parti | cular relevance | uncerstand the | principle or theory un | iderlying the invention |
| B* earlier app | lication or patent published on or after the international filing | "X" document of pa | rticular relevance; the | claimed invention cannot be |
| date | and the same state of the same | | el or cannot be consid locument is taken alor | lered to involve an inventive |
| " document | which may throw doubts on priority claim(s) or which is cited | | | claimed invention cannot be |
| (as specific | u the publication date of another citation or other special region | considered to li | IVOLVE 20 inventive at | en when the dominant is |
| O" document i | referring to an area disables as a second state of | combination be | one or more other suc ing obvious to a perso | h documents, such |
| | referring to an oral disclosure, use, exhibition or other means | | per of the same patent | |
| | published prior to the international filing date but later than the | and an analysis of the same | ou or the same patent | iamily |
| ate of the ac | tual completion of the international search | Date of mailing of the | international sear | ch report |
| May 2004 | (03.05.2004) | 1 9 AUG 2004 | | |
| ame and mai | ling address of the ISA/US | Authorized officer | | |
| Mail | Stop PCT, Aun: ISA/US | \sim 1. | | |
| | nissioner for Patents Box 1450 | Sreenivasan Padmanabhan Telephone No. 703-308-1235 | | |
| Alexa | indria, Virginia 22313-1450 | Telephone No. 703-30 | 18-1235/1ELL | acalling 1. |
| | (703) 305-3230 | | 7 | COULD LO |
| m PCT/ISA/ | 210 (second sheet) (July 1998) | | | —————————————————————————————————————— |